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5	2	sort\$3.ti. and predict\$3.ti.	USPAT	2003/12/19 20:43
6	1813	sort\$3.ti. and @pd<=19940904	USPAT	2003/12/19 19:57
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8	71	\$2necess\$3.ti. and @pd<=19940904	USPAT	2003/12/19 20:10
9	13	keyword.ti. and @pd<=19940904	USPAT	2003/12/19 20:10
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11	2	sort\$3.ti. and \$2necess\$3.ti.	USPAT	2003/12/19 20:44
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13	49	filter\$3.ti. and predict\$3.ti.	USPAT	2003/12/19 20:58
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15	22	706/14.ccls. and @pd<=19940904	USPAT	2003/12/19 20:59
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-	1	("6647378").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/18 20:25
-	2	("6327583").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/18 20:26
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-	6	(6286012, 6363383, "6076082").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:27
-	8	(5565915, 5448502, 5220496, "5109275").pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:27

-	13	(5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, "6067535").pn.	USPAT	2003/12/19 19:34
-	2	filter\$3 same predict\$3 same degree\$1 same keyword\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 10:24
-	536	filter\$3 and predict\$3 and degree\$1 and keyword\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 10:25
-	30	(filter\$3 same keyword\$1) and (predict\$3 same degree\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 18:18
-	17	(5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, 6067535, 5565915, 5448502, 5220496, "5109275").pn.	USPAT	2003/12/19 10:34
-	23	(5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, 6067535, 5565915, 5448502, 5220496, 5109275, 6286012, 6363383, 6076082, 6408277, 6647378, "6327583").pn.	USPAT	2003/12/19 10:35
-	3	((filter\$3 same keyword\$1) and (predict\$3 same degree\$1)) and ((5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, 6067535, 5565915, 5448502, 5220496, 5109275, 6286012, 6363383, 6076082, 6408277, 6647378, "6327583").pn.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:26
-	25	(filter\$3 same keyword\$1) and (predict\$3 same degree\$1) and frequen\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 16:30
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-	17	(sort\$3 same keyword\$1) and (predict\$3 same degree\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 18:18

-	84	(sort\$3 and keyword\$1) and (predict\$3 same degree\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 18:19
-	527	(sort\$3 and keyword\$1) and (predict\$3 and degree\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 18:22
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-	23	((sort\$3 and keyword\$1) and (predict\$3 and degree\$1)) and @pd<=19940904	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 18:22
-	3	((filter\$3 same keyword\$1) and (predict\$3 same degree\$1)) and ((5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, 6067535, 5565915, 5448502, 5220496, 5109275, 6286012, 6363383, 6076082, 6408277, 6647378, "6327583").pn.).uref	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:26
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-	3	((6286012, 6363383, "6076082").pn.).uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:27
-	49	(5565915, 5448502, 5220496, "5109275").pn..uref.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/12/19 19:27
-	436	(5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, "6067535").pn..uref.	USPAT	2003/12/19 19:34
-	11	((5048100, 5226092, 5446891, 5535382, 5619709, 5692176, 5724567, 5802504, 5832465, 5855015, 5907841, 6064971, "6067535").pn..uref.) and @pd<=19940904	USPAT	2003/12/19 19:53

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Maragos, P.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume: 11 7 , July 1989

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133 Concurrent algorithms for a class of 1-D and 2-D Wiener FIR filters symmetrical impulse response

Kalouptsidis, N.; Theodoridis, S.;

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Inouye, Y.;

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Nowak, R.D.; Van Veen, B.D.;

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161 **Six degree-of-freedom active vibration control using the Stewart platforms**

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162 **State space representations of 2-D FIR lossless transfer matrices**

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Chulhee Lee; Eden, M.; Unser, M.;

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2003
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 L. Burgstahler , K. Dolzer , C. Hauser , J. Jähnert , S. Junghans , C. Macián , W. Payer
Proceedings of the ACM SIGCOMM workshop on Revisiting IP QoS: What have we learned, why do we care? August 2003
 Years of research on QoS architectures for IP networks have delivered sophisticated proposals, which have nevertheless not found broad commercial use. The reasons are not lack of technical soundness or insurmountable technological complexity, but insufficient attention to other, non-QoS-specific matters. First among them is the lack of a commercialization model for the Internet together with the necessary accounting and charging architecture. Another crucial issue is the assurance of end-to-end ...
- 2** Network interactions: Simulating realistic network worm traffic for worm warning system design and testing 77%

 Michael Liljenstam , David M. Nicol , Vincent H. Berk , Robert S. Gray
Proceedings of the 2003 ACM workshop on Rapid Malcode October 2003
 Reproducing the effects of large-scale worm attacks in a laboratory setup in a realistic and reproducible manner is an important issue for the development of worm detection and defense systems. In this paper, we describe a worm simulation model we are developing to accurately model the large-scale spread dynamics of a worm and many aspects of its detailed effects on the network. We can model slow or fast worms with realistic scan rates on realistic IP address spaces and selectively model local d ...
- 3** Tools/platforms: Tools and techniques for performance measurement of large distributed multiagent systems 77%

 Aaron Helsinger , Richard Lazarus , William Wright , John Zinky
Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003

Performance measurement of large distributed multiagent systems (MAS) offers challenges that must be addressed explicitly in the agent infrastructure. Performance data is widely distributed and voluminous, and poor data collection can impact the operation of the system itself. However, performance metrics are essential to internal system function, e.g., autonomous adaptation to dynamic environments, as well as to external assessment. In this paper we describe the tools, techniques, and results o ...

4 Fast detection of communication patterns in distributed executions 77%



Thomas Kunz , Michiel F. H. Seuren

Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research November 1997

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Improving the browsing experience: Comparing link marker visualization 77%



techniques: changes in reading behavior

Hartmut Obendorf , Harald Weinreich

Proceedings of the twelfth international conference on World Wide Web May 2003

Links are one of the most important means for navigation in the World Wide Web. However, the visualization of and the interaction with Web links have been scarcely explored, although Links have severe implications on the appearance and usability of Web pages and the World Wide Web as such. This paper presents two studies giving first insights of the effects of link visualization techniques on reading habits and performance. The first user study compares different highlighting techniques for link ...

6 Scalable feature selection, classification and signature generation for 77%



organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti , Byron Dom , Rakesh Agrawal , Prabhakar Raghavan

The VLDB Journal — The International Journal on Very Large Data Bases August 1998

Volume 7 Issue 3

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, also called *taxonomies*. Similar to indices for relational data, taxonomies make search and access more efficient. However, the exponential growth in the volume of on-line textual information makes it nearly impossible to maintain such taxono ...

7 Novel architectures: A pipelined configurable gate array for embedded 77%



processors

Andrea Lodi , Mario Toma , Fabio Campi

Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays February 2003

In recent years the challenge of high performance, low power retargettable embedded system has been faced with different technological and architectural solutions. In this paper we present a new configurable unit explicitly designed to implement additional reconfigurable pipelined datapaths, suitable for the design of reconfigurable processors. A VLIW reconfigurable processor has been implemented on

silicon in a standard 0.18 μm CMOS technology to prove the effectiveness of the prop ...

8 Types and persistence in database programming languages 77%



Malcolm P. Atkinson , O. Peter Buneman

ACM Computing Surveys (CSUR) June 1987

Volume 19 Issue 2

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

9 The Hearsay-II Speech-Understanding System: Integrating Knowledge to Resolve Uncertainty 77%



Lee D. Erman , Frederick Hayes-Roth , Victor R. Lesser , D. Raj Reddy

ACM Computing Surveys (CSUR) June 1980

Volume 12 Issue 2

10 Office Information Systems and Computer Science 77%



Clarence A. Ellis , Gary J. Nutt

ACM Computing Surveys (CSUR) January 1980

Volume 12 Issue 1

11 Data clustering: a review 77%



A. K. Jain , M. N. Murty , P. J. Flynn

ACM Computing Surveys (CSUR) September 1999

Volume 31 Issue 3

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

12 A study of the applicability of existing exception-handling techniques to component-based real-time software technology 77%



Jun Lang , David B. Stewart

ACM Transactions on Programming Languages and Systems (TOPLAS) March 1998

Volume 20 Issue 2

This study focuses on the current state of error-handling technology and concludes with recommendations for further research in error handling for component-based real-time software. With real-time programs growing in size and complexity, the quality and cost of developing and maintaining them are still deep concerns to embedded software industries. Component-based software is a promising approach in reducing development cost while increasing quality and reliability. As with any other real- ...

13 Multimedia backroads (panel): low bandwidth implementations 77%

John M. Danskin , Andres Albanese , Geoffrey M. Davis , Paul G. Jensen

Proceedings of the third ACM international conference on Multimedia January 1995**14** Extending a graphical toolkit for two-handed interaction 77%

Stéphane Chatty

Proceedings of the 7th annual ACM symposium on User interface software and technology November 1994

Multimodal interaction combines input from multiple sensors such as pointing devices or speech recognition systems, in order to achieve more fluid and natural interaction. Two-handed interaction has been used recently to enrich graphical interaction. Building applications that use such combined interaction requires new software techniques and frameworks. Using additional devices means that user interface toolkits must be more flexible with regard to input devices and event types. The possibilities ...

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 Yiming Yang , Jian Zhang , Jaime Carbonell , Chun Jin
Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002
 Automated detection of the first document reporting each new event in temporally-sequenced streams of documents is an open challenge. In this paper we propose a new approach which addresses this problem in two stages: 1) using a supervised learning algorithm to classify the on-line document stream into pre-defined broad topic categories, and 2) performing topic-conditioned novelty detection for documents in each topic. We also focus on exploiting named-entities for event-level novelty detection ...
- 2** Poster papers: Incremental context mining for adaptive document 80%
 classification
 Rey-Long Liu , Yun-Ling Lu
Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002
 Automatic document classification (DC) is essential for the management of information and knowledge. This paper explores two practical issues in DC: (1) each document has its *context* of discussion, and (2) both the content and vocabulary of the document database is intrinsically *evolving*. The issues call for *adaptive document classification* (ADC) that adapts a DC system to the evolving contextual requirement of each document category, so that input documents may be classified ...
- 3** Text classification: A refinement approach to handling model misfit in 80%
 text categorization
 Haoran Wu , Tong Heng Phang , Bing Liu , Xiaoli Li
Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002

disc very and data mining July 2002

Text categorization or classification is the automated assigning of text documents to pre-defined classes based on their contents. This problem has been studied in information retrieval, machine learning and data mining. So far, many effective techniques have been proposed. However, most techniques are based on some underlying models and/or assumptions. When the data fits the model well, the classification accuracy will be high. However, when the data does not fit the model well, the classificat ...

4 Classification: Boosting to correct inductive bias in text classification 80%

Yan Liu , Yiming Yang , Jaime Carbonell

Proceedings of the eleventh international conference on Information and knowledge management November 2002

This paper studies the effects of boosting in the context of different classification methods for text categorization, including Decision Trees, Naive Bayes, Support Vector Machines (SVMs) and a Rocchio-style classifier. We identify the inductive biases of each classifier and explore how boosting, as an error-driven resampling mechanism, reacts to those biases. Our experiments on the Reuters-21578 benchmark show that boosting is not effective in improving the performance of the base classifiers ...

5 Machine learning in automated text categorization 80%

Fabrizio Sebastiani

ACM Computing Surveys (CSUR) March 2002
Volume 34 Issue 1

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from a set of preclassified documents, the characteristics of the categories. ...

6 Maximum likelihood estimation for filtering thresholds 80%

Yi Zhang , Jamie Callan

Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval September 2001

Information filtering systems based on statistical retrieval models usually compute a numeric score indicating how well each document matches each profile. Documents with scores above profile-specific dissemination thresholds are delivered. An optimal dissemination threshold is one that maximizes a given utility function based on the distributions of the scores of relevant and non-relevant documents. The parameters of the distribution can be estimated using releva ...

7 The score-distributional threshold optimization for adaptive binary classification tasks 80%


Avi Arampatzis , André van Hameran

Proceedings of the 24th annual international ACM SIGIR conference on Research and development in information retrieval September 2001

The thresholding of document scores has proved critical for the effectiveness of classification tasks. We review the most important approaches to thresholding, and introduce the score-distributional (S-D) threshold optimization method. The method is based on score distributions and is capable of optimizing any effectiveness measure

defined in terms of the traditional contingency table. As a byproduct, we provide a model for score distributions, and d ...

8 An information-theoretic approach to automatic query expansion 80%


 Claudio Carpineto , Renato de Mori , Giovanni Romano , Brigitte Bigi
ACM Transactions on Information Systems (TOIS) January 2001
Volume 19 Issue 1

Techniques for automatic query expansion from top retrieved documents have shown promise for improving retrieval effectiveness on large collections; however, they often rely on an empirical ground, and there is a shortage of cross-system comparisons. Using ideas from Information Theory, we present a computationally simple and theoretically justified method for assigning scores to candidate expansion terms. Such scores are used to select and weight expansion terms within Rocchio's framework ...

9 Boosting for document routing 80%

 Raj D. Iyer , David D. Lewis , Robert E. Schapire , Yoram Singer , Amit Singhal
Proceedings of the ninth international conference on Information and knowledge management November 2000

10 Text filtering by boosting naive Bayes classifiers 80%

 Yu-Hwan Kim , Shang-Yoon Hahn , Byoung-Tak Zhang
Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000


Several machine learning algorithms have recently been used for text categorization and filtering. In particular, boosting methods such as AdaBoost have shown good performance applied to real text data. However, most of existing boosting algorithms are based on classifiers that use binary-valued features. Thus, they do not fully make use of the weight information provided by standard term weighting methods. In this paper, we present a boosting-based learning method for text filtering that use ...

11 Improving text categorization methods for event tracking 80%

 Yiming Yang , Tom Ault , Thomas Pierce , Charles W. Lattimer
Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000

Automated tracking of events from chronologically ordered document streams is a new challenge for statistical text classification. Existing learning techniques must be adapted or improved in order to effectively handle difficult situations where the number of positive training instances per event is extremely small, the majority of training documents are unlabelled, and most of the events have a short duration in time. We adapted several supervised text categorization methods, specifically se ...

12 Relevance feedback with a small number of relevance judgements: 80%

 incremental relevance feedback vs. document clustering
Makoto Iwayama
Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval July 2000

The use of incremental relevance feedback and document clustering were investigated in a relevance feedback environment in which the number of relevance judgements was quite small. Through experiments on the TREC collection, the

incremental relevance feedback approach was found not to improve the overall search effectiveness. The clustering approach was found to be promising, although it sometimes over-focuses on a particular topic in a query and ignores the others. To overcome this problem, ...

13 Text classification using ESC-based stochastic decision lists 80%



Hang Li , Kenji Yamanishi

Proceedings of the eighth international conference on Information and knowledge management November 1999

We propose a new method of text classification using stochastic decision lists. A stochastic decision list is an ordered sequence of IF-THEN rules, and our method can be viewed as a rule-based method for text classification having advantages of readability and refinability of acquired knowledge. Our method is unique in that decision lists are automatically constructed on the basis of the principle of minimizing Extended Stochastic Complexity (ESC), and with it we are able to construct decis ...

14 An Internet-based newspaper filtering and personalization system 80%



(demonstration abstract)

Aleksander Kolcz , Joshua Alspector

Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999

15 A hidden Markov model information retrieval system 80%



David R. H. Miller , Tim Leek , Richard M. Schwartz

Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval August 1999

16 Context-sensitive learning methods for text categorization 80%



William W. Cohen , Yoram Singer

ACM Transactions on Information Systems (TOIS) April 1999
Volume 17 Issue 2

Two recently implemented machine-learning algorithms, RIPPER and sleeping-experts for phrases, are evaluated on a number of large text categorization problems. These algorithms both construct classifiers that allow the "context" of a word w to affect how (or even whether) the presence or absence of w will contribute to a classification. However, RIPPER and sleeping-experts differ radically in many other respects: ...

17 Boosting and Rocchio applied to text filtering 80%



Robert E. Schapire , Yoram Singer , Amit Singhal

Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval August 1998

18 Information access and retrieval: Expanding domain-specific lexicons by term categorization 77%



Henri Avancini , Alberto Lavelli , Bernardo Magnini , Fabrizio Sebastiani , Roberto Zanolini

Proceedings of the 2003 ACM symposium on Applied computing March 2003

We discuss an approach to the automatic expansion of domain-specific lexicons by means of *term categorization*, a novel task employing techniques from information retrieval (IR) and machine learning (ML). Specifically, we view the expansion of such lexicons as a process of learning previously unknown associations between terms and *domains*. The process generates, for each c_i in a set $C = \{c_1, \dots, c_m\}$ of domains, a

lexicon < ...

19 Minimum majority classification and boosting

77%

Philip M. Long

Eighteenth national conference on Artificial intelligence July 2002

Motivated by a theoretical analysis of the generalization of boosting, we examine learning algorithms that work by trying to fit data using a simple majority vote over a small number of a collection of hypotheses. We provide experimental evidence that an algorithm based on this principle outputs hypotheses that often generalize nearly as well as those output by boosting, and sometimes better. We also provide experimental evidence for an additional reason that boosting algorithms generalize well, ...

20 Special issue on Machine learning methods for text and images: A family of additive online algorithms for category ranking





Koby Crammer , Yoram Singer

The Journal of Machine Learning Research March 2003

Volume 3

We describe a new family of topic-ranking algorithms for multi-labeled documents. The motivation for the algorithms stem from recent advances in online learning algorithms. The algorithms are simple to implement and are also time and memory efficient. We provide a unified analysis of the family of algorithms in the mistake bound model. We then discuss experiments with the proposed family of topic-ranking algorithms on the Reuters-21578 corpus and the new corpus released by Reuters in 2000. On bo ...

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|  | Nadeem Ahmed Syed , Huan Liu , Kah Kay Sung
Proceedings of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining August 1999 | |
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- 1 On-line learning and the metrical task system problem 82%
 Avrim Blum , Carl Burch
Proceedings of the tenth annual conference on Computational learning theory July 1997

- 2 Static optimality and dynamic search-optimality in lists and trees 80%
 Avrim Blum , Shuchi Chawla , Adam Kalai
Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms January 2002
 Adaptive data structures form a central topic of on-line algorithms research, beginning with the results of Sleator and Tarjan showing that splay trees achieve static optimality for search trees, and that Move-to-Front is constant competitive for the list update problem [ST85a, ST85b]. This paper is inspired by the observation that one can in fact achieve a $1 + \epsilon$ ratio against the best *static* object in hindsight for a wide range of data structure problems via "weighted experts" te ...

- 3 Tracking the best linear predictor 77%
 Mark Herbster , Manfred K. Warmuth
The Journal of Machine Learning Research September 2001
 Volume 1
 In most on-line learning research the total on-line loss of the algorithm is compared to the total loss of the best off-line predictor u from a comparison class of predictors. We call such bounds *static bounds*. The interesting feature of these bounds is that they hold for an arbitrary sequence of examples. Recently some work has been done where the predictor u_t at each trial t is allowed to change with time, and the total on-line loss of the algorithm is co ...

- 4 Online algorithms for market clearing 77%
 Avrim Blum , Tuomas Sandholm , Martin Zinkevich
Pr eedings of the thirteenth annual ACM-SIAM symposium on Discrete

alg rithms January 2002

In this paper we study the problem of online market clearing where there is one commodity in the market, being bought and sold by multiple buyers and sellers who submit buy and sell bids that arrive and expire at different times. The auctioneer is faced with an online clearing problem of deciding which buy and sell bids to match without knowing what bids will arrive in the future. For maximizing *surplus*, we present a (randomized) online algorithm with competitive ratio $\ln(p_{max})$

5 Better algorithms for unfair metrical task systems and applications 77%

Amos Fiat , Manor Mendel

Proceedings of the thirty-second annual ACM symposium on Theory of computing

May 1999

6 Tracking the best regressor 77%

Mark Herbster , Manfred K. Warmuth

Proceedings of the eleventh annual conference on Computational learning theory

July 1998

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- 1** Worst-case quadratic loss bounds for a generalization of the Widrow-Hoff rule 80%

Nicolò Cesa Bianchi , Philip M. Long , Manfred K. Warmuth
Proceedings of the sixth annual conference on Computational learning theory
 August 1993
- 2** How to use expert advice 80%

Nicolò Cesa-Bianchi , Yoav Freund , David P. Helmbold , David Haussler , Robert E. Schapire , Manfred K. Warmuth
Proceedings of the twenty-fifth annual ACM symposium on Theory of computing
 June 1993
- 3** Universal sequential learning and decision from individual data sequences 80%

Neri Merhav , Meir Feder
Proceedings of the fifth annual workshop on Computational learning theory July 1992

Sequential learning and decision algorithms are investigated, with various application areas, under a family of additive loss functions for individual data sequences. Simple universal sequential schemes are known, under certain conditions, to approach optimality uniformly as fast as $n^{-1} \log n$, where n is the sample size. For the case of finite-alphabet observations, the class of schemes that can be implemented by finite-
 S ...
- 4** Optimal prediction for prefetching in the worst case 77%

P. Krishnan , Jeffrey Scott Vitter
Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms
 January 1994

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NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/26/2002.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

A handwritten signature in black ink, appearing to read "J. Gaynor".

JESSICA T. GAYNOR
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